

ANNUAL REPORT  
OF THE  
COMMITTEE  
OF THE  
MANCHESTER AND SALFORD  
SANITARY ASSOCIATION,

BEING

A SUMMARY OF THEIR PROCEEDINGS FOR THE YEAR 1867.



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MANCHESTER:

POWLSON & SONS, PRINTERS, BOW ST., JOHN DALTON STREET.  
1868.



At the ANNUAL MEETING of the Manchester and Salford Sanitary Association, held in the Town Hall, King Street, on Friday, April 17th, 1868:

THE MAYOR OF MANCHESTER IN THE CHAIR.

The Annual Report having been read;

It was moved by the Rev. CANON RICHSON; seconded by Dr. NOBLE:—

That this Meeting, cordially approving of the proceedings of the Committee, as set forth in their Report, request that the said Report may be printed and extensively circulated.

Moved by Mr. Alderman CAWLEY; seconded by the Rev. T. H. GILL:—

That the best thanks of this Meeting be given to the President, Vice-Presidents, Committee, and Officers for the unwearied attention they have devoted to promoting the interests of this Association, and that the following Noblemen and Gentlemen be requested to act for the ensuing year.—(For the names see opposite page.)

Moved by Sir JAMES BARDSLEY; seconded by Mr. LEIGH:—

That the practical efforts of the Committee to improve the condition of the poorer classes, by directing attention to Sanitary Laws, deserve the encouragement and pecuniary support of this Meeting and the public in general.

Moved by THOMAS TURNER, Esq., seconded by Mr. Alderman BOOTH:—

That inasmuch as one of the fundamental objects of the Association is the prevention of disease, this Meeting trusts that the Committee will use every means in their power to secure all possible precautions being taken to prevent the spread of infectious disorders.

ROBERT NEILL.

The Chair having been taken by THOMAS TURNER, Esq.,

It was moved by Mr. MELLOR; seconded by Dr. RANSOME:—

That the thanks of the Meeting be given to the Worshipful the Mayor of Manchester for presiding on this occasion.

JOHN ROBERTS, M.D., } Hon Secs.  
C. H. KNIGHT,

# MANCHESTER AND SALFORD SANITARY ASSOCIATION.

## Committee and Officers for the Year 1868.

### President :

The Right Rev. The LORD BISHOP OF MANCHESTER.

### Vice-Presidents :

The Worshipful the MAYOR of MANCHESTER.

The Worshipful the MAYOR of SALFORD.

The Very Rev. the DEAN of MANCHESTER.

MARQUIS of HARTINGTON.

Hon. ALGERNON EGERTON, M.P.

Sir E. ARMITAGE.

Sir JAS. BARDSLEY, M.D.

Rev. Canon RICHSON, M.A.

THOMAS BAZLEY, Esq., M.P.

W. FAIRBAIRN, Esq., LL.D., F.R.S.

A. H. HEYWOOD, Esq.

JOHN CHEETHAM, Esq., M.P.

JOS. WHITWORTH, Esq., M.Inst.C.E.

### Treasurer :

Mr. OLIVER HEYWOOD.

### Chairman :

Mr. THOMAS TURNER, F.L.S., F.R.C.S.

### Deputy-Chairman :

Mr. DANIEL NOBLE, M.A., M.D., F.R.C.P.

### Committee :

Mr. A. ASPLAND, M.C.S.

Mr. OLIVER AYLIFFE.

Mr. Alderman BOOTH.

Mr. GEO. BOWRING.

Dr. F. CRACE CALVERT,  
F.R.S.

Mr. Aldmn C. E. CAWLEY,  
M.Inst.C.E.

Mr. H. CHARLEWOOD.

Mr. Alderman T. DAVIES.

Dr. A. E. DAVIES.

Dr. J. S. FLETCHER.

Mr. GEORGE GREAVES,  
M.R.C.S.

Mr. WILLIAM HEATH,  
M.R.C.S.

Mr. C. J. HERFORD.

Mr. H. A. HURST.

Mr. J. W. JACKSON.

Mr. Alderman KING.

Dr. LEDWARD.

Mr. T. MACKERETH,  
F.R.A.S., M.B.M.S.

Mr. F. MARRIOTT.

Mr. J. W. MACLURE,  
F.R.G.S., F.S.S.

Mr. THOMAS MELLOR,  
F.R.C.S.

Dr. MORGAN.

Mr. JOHN NEWTON,  
M. Inst. C.E.

Mr. H. C. OATS.

Dr. PIGG.

Mr. WILLIAM REES.

Mr. A. RANSOME, M.A.,  
M.B., M.R.C.S.

Dr. ROSCOE, B.A.

Mr. WM. ROYSTON.

Mr. T. D. RYDER, M.A.

Dr. SAMELSON.

Mr. THOS. SCHOFIELD,

Dr. SIMPSON.

Dr. R. A. SMITH, F.R.S.

Mr. J. TEALE, M.R.C.S.

Mr. G. V. VERNON,  
F.R.A.S., M.B.M.S.

Dr. M. A. EASON WIL-  
KINSON.

Mr. W. J. WILLIAMS.

Rev. F. C. WOODHOUSE.

### Honorary Secretaries :

Dr. JOHN ROBERTS.

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Mr. C. H. KNIGHT.

## COTTAGE DWELLINGS, SUB-COMMITTEE.

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Mr. O. HEYWOOD,  
Mr. RANSOME,  
Dr. LEDWARD,  
Mr. Alderman BOOTH,  
Mr. W. HEATH,  
Mr. JOHN NEWTON,  
Mr. GEORGE HARRIS,  
Mr. OLIVER AYLIFFE,

Mr. GEORGE GREAVES,  
Mr. H. A. HURST,  
Mr. H. C. OATS,  
Mr. A. ASPLAND,  
Mr. THOMAS WORTHINGTON,  
Mr. W. ROYSTON,  
Mr. W. REES.

*The Chairman, Deputy-Chairman, and Honorary Secretaries are  
ex-officio Members of the above Sub-Committee.*

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*Communications for the Committee may be addressed to—*

THOMAS TURNER, Esq., Chairman,  
77, Mosley Street.

Dr. NOBLE, Deputy Chairman,  
Piccadilly.

OLIVER HEYWOOD, Esq., Treasurer,  
St. Ann's Street.

The Honorary Secretaries, { Dr. JOHN ROBERTS, Oxford Street.  
C. H. KNIGHT, Esq., 75, Mosley Street.

*Or to*

Mr. C. G. CARTLEDGE, Secretary,  
At the Offices of the Association, 33, Pall Mall,  
(Near to the Bank of England.)



# REPORT.

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THE year 1867, regarded from a sanitary point of view, presents no very marked character. The Manchester and Salford Sanitary Association have not to record any special and devastating epidemic, nor the exertions which such a visitation calls forth. They trust, however, that they have been doing work which, if persevered in, will bring its reward in a diminution of preventible diseases, and in the well-being and happiness attendant upon such a result.

The great lesson the Sanitary Association has had the privilege to teach is the necessity for a permanent organization whose duty it would be systematically to watch over the public health. The Committee following-up the previous endeavours of the Society in this direction, in the beginning of the year urged the Manchester and Salford Corporations to appoint highly qualified Medical Officers of Health for the two Boroughs, and stated the conditions which they in common with all versed in sanitary matters considered indispensable to the beneficial operation of such a procedure.

The Manchester Corporation have recently so far complied with the manifest desire of their constituents as to appoint a Health Officer. Their action has not given entire satisfaction to this Association, inasmuch as they have not required the whole services of the gentleman they have selected, but have rendered his duties as Health Officer in some measure subordinate to other appointments previously held by him. Impressed

with the primary importance to Manchester of obtaining the undivided attention of such an officer the Committee, at a Special Meeting held on the 20th of March, 1868, adopted the following Memorial on the subject:—

*To the Mayor, Aldermen, and Councilmen of the City of  
Manchester.*

GENTLEMEN,

The Committee of the Manchester and Salford Sanitary Association have, of late years, assiduously supported the endeavour to obtain the appointment of a medical officer of health for the City of Manchester. They have on no occasion withheld their opinion as to the essential points to be taken into consideration with respect to such an appointment. Above all has the necessity been invariably insisted upon that the person to be installed in the new office should be entirely untrammelled by any other business ties. For, if an adequate salary was always considered a primary requisite, it was because it was held indispensable that the functionary in question should devote the whole of his time and attention to the new office, requiring as it does in a great measure to be shaped and organized by him who should the first be invested with it. It is therefore with some surprise and regret that the Manchester and Salford Sanitary Association have learnt the decision recently arrived at by the Town Council. It appears that the long-looked-for appointment has been conferred upon an officer burdened already with an amount of public business the demands of which cannot fail seriously to detract from his efficiency as the medical officer of health for a place so large and important as Manchester. Conscious of being supported in this view by the opinion of the medical profession generally, and of the enlightened portion of the community, this Association consider that they would be failing in their duty were they not to urge on the Town Council the expediency of so modifying the terms of the appointment as to enable the officer of health to devote himself exclusively to the engrossing requirements of his onerous post."

The Committee believe that sanitary progress will be slow until the appointment of medical officers of health becomes general in rural as well as urban districts. It is scarcely possible for this to take place without Government aid, and public opinion is not at present sufficiently aroused to the importance of such a reform to enable a government to carry a system that would be applicable to the whole country. The Committee welcome, therefore, the plan sketched by Dr. William Farr, in a letter to the Registrar General, appended to the twenty-seventh annual report of the latter, as a most satisfactory solution of the difficulty : Dr. Farr proposes the registration of uncertified deaths and still-births through the instrumentality of Registration Medical Officers, who should act as officers of health in their respective districts. Two important functions would thus be discharged in each district by one officer, and the beneficial results of this scheme would amply compensate for the necessary outlay. Mr. H. C. Oats and Dr. Ransome, at the request of the Association, drew up the following Memorial to the Home Secretary on the subject, which was signed by more than a hundred influential gentlemen of Manchester and Salford :—

*To the Right Honorable Gathorne Hardy, Her Majesty's Principal Secretary of State for the Home Department.*

*The Memorial of the Manchester and Salford Sanitary Association.*

HUMBLY SHOWETH,—

That the registration of the cause of death under the provisions of the existing registration acts not being compulsory is, in our opinion, very imperfectly performed. The certificates given are often those of unqualified medical practitioners, whilst in a large number of instances no certificate of death is obtained.



That, in consequence of such imperfect registration, the reports of the Registrar General are, to a great extent, useless as scientific records, and comparatively useless as a basis for legislation for sanitary purposes.

That as a further consequence of such imperfect registration, and also through the absence from the registration act of any provision for the registration of still-births, no adequate means exist for preventing the concealment of crimes of violence, especially in the case of young infants.

That the enquiry held in the Coroner's Court from the want of medical evidence is too often little better than a mere form.

That there is in many parts of the kingdom a total want of efficient sanitary supervision, and that in consequence thereof the causes of disease are not brought under the notice of the local authorities, and it is only reasonable to believe that many deaths thus occur which, with proper care, might have been prevented.

That to remedy these defects there ought, as your memorialists believe, to be in all parts of the kingdom skilled persons appointed as officers of health, whose function it should be to examine the body of every person, the cause of whose death has not been duly certified by a qualified medical practitioner, and also to examine the body of every infant alleged to have been still-born, the fact of whose still-birth has not been duly certified by a qualified medical practitioner, and also to attend as assessors to the coroners at every coroner's inquest, and further to make themselves acquainted with the nature and causes of any diseases extensively prevalent, or whose prevalence is to be feared, and report thereon to the local authorities or to the government, and to give such advice as they may think necessary with reference to the steps to be taken for the prevention of such diseases, and generally to perform the duties of medical officers of Health.

And your memorialists humbly submit that such officers ought not to be removable by the local authorities, nor be allowed to engage in the ordinary duties of medical practice.



Your memorialists therefore humbly suggest that the matters above referred to may receive such consideration as their importance seems to demand, and that with a view to legislation on the subject such enquiries may be made and such steps taken as may appear best calculated to aid in attaining the ends proposed.

The following letter was received in answer to the Memorial :—

WHITEHALL, AUGUST 16th, 1867.

SIR,

With reference to your letter of the 9th of July I am directed by Mr. Secretary Hardy to inform you that, from inquiries which he has instituted into the subject, he does not think it desirable that the registration of the births of still-born children should be introduced into England and Wales : nor that officers of health need be appointed in all parts of the kingdom, for the purpose of personally examining the body of every still-born infant whose birth has not been legally certified by a qualified practitioner. It appears, also, to Mr. Hardy, that cases of great hardship would occur if no funeral were allowed to take place where a certificate of the cause of death, from a legally qualified practitioner, was not procurable, until the body had been examined by the officer of health proposed to be appointed in the Memorial of the Manchester and Salford Sanitary Association.

I am, Sir,

Your obedient Servant,

Dr. MORGAN.

ADOLPHUS F. O. LIDDEL.

It thus appeared that the Secretary of State had directed his attention to matters of detail, to the neglect of the more urgent demands for registration and health officers. The Committee resolved to supplement the memorial by a further communication, and the following answer to the Secretary of State's letter was sent by the Committee :—

*To the Right Honorable Gathorne Hardy.*

SIR,

The Committee of the Manchester and Salford Sanitary Association have the honour to acknowledge the receipt of your communication, dated August 16th, and have duly taken into consideration your remarks upon the subject of their Memorial. They feel called upon to trouble you with a reply, because it appears to them, that your objections have proceeded from some misapprehension as to the meaning of the said Memorial.

In the first place, the Committee did not urge the necessity of appointing medical officers of health solely, or even chiefly, in order to perform the two duties which have been selected for notice in your letter. The Memorial mentions several other very important functions which might with advantage be performed by these officers, and the appointment of such officers was sanctioned in the Act, Vic. 11 and 12, Chap. 63, Clause 40 ; and his duties will be found detailed in the accompanying Recommendation, lately issued by the Sanitary Association.

Secondly, it is stated in your communication, "that it does not appear desirable that the registration of the births of still-born children should be introduced into England and Wales." The Committee wish to state that they have never recommended that this should be done, but they have affirmed, that for the want of provisions for this registration, no adequate means exist for preventing the concealment of crimes of violence in the case of young infants, and they suggest that, to prevent these crimes, *one* of the duties of the medical officer should be, not to register the still-birth, but to examine the body before burial.

The Committee submit that some alteration in the regulations respecting children alleged to be still-born is urgently necessary. That it is not considered sufficient for the protection of society against the crime of infanticide that merely the midwife (often unqualified, usually a female,) gives a note stating that any child was still-born

and it is on record that such a notice has been given when the child lived five days after birth.

Thirdly.—With respect to the observation “that cases of great hardship would occur if no funeral were allowed to take place, when a certificate of the cause of death by a legally qualified medical practitioner was not procurable, until the body had been examined by the officer.” It appears to the Committee that, in making this suggestion, they were merely seeking for an extension of a plan, the principle of which has already received the sanction of the Legislature in the Act relating to Friendly Societies, (21 and 22 Vict., Cap. 101, Sect. 2,) wherein it is provided that, if any child shall not have been attended by a qualified medical practitioner, the medical officer of the Union or Parish in which such child shall have been resident shall deliver to the parents or friends of the deceased child a certificate stating the probable cause of death. The Committee assume that no medical practitioner would give such a certificate, without first ascertaining the probable cause of death by a proper inspection of the body, and they respectfully point out that they merely wish this duty to be performed by a properly qualified officer in every case of uncertified death.”

This letter closed the correspondence.

In the early part of the year, the Salford Town Council was requested to grant to a limited liability company an exclusive license to establish a slaughter-house and dead-meat market in Salford. The site fixed upon was in the midst of a densely populated district, situated between Worsley Street and the river. The Committee passed a resolution, which was forwarded to the Salford Council, setting forth the conditions which should obtain in an abattoir on such a scale as would suffice for so large a borough, and which it was impossible to observe in a building on the spot proposed. It was resolved by the Salford Town Council—“That the proposed site in Worsley Street is



unsuitable for a slaughter-house and dead-meat market on so large a scale, and that in the opinion of the Council it is not desirable to grant leases (even if the Corporation had power) to any company or person for such purpose.”

The question of the comparative advantages of a slaughter-house in the hands of a well-managed company, and of a large number of private establishments, is not difficult to decide. The public health would certainly improve were the present slaughter-houses supplanted by a properly-conducted abattoir, large enough to supply the whole town. It is to be hoped that an impetus will be given to this reform, as well as to others, by the appointment of the medical officer of health for Manchester, and the organization of a health department of the town council.

At a special meeting of the Association, held on the 3rd of November, a Sub-Committee was appointed to consider whether assistance should be proffered or not to the commissioners deputed to inquire into the pollution of the rivers of this district. The evidence in the possession of the Society not being sufficiently conclusive, the Sub-Committee considered it unadvisable to do so. The course followed with regard to this important subject, by no means indicates that the Society views with unconcern the present state of our sewer rivers, but rather shows that the matter is so surrounded with difficulties, that much more labour will be required to enable the magnitude of the nuisance to be properly estimated and remedied. The presence, on the Committee, of several gentlemen who have rendered great service by reporting on the condition of our rivers, is a guarantee that the subject will not be overlooked.

The Association, assisted by the gentlemen who contribute the statistics of the public medical charities, the meteorological

reports, and the number of deaths registered in the eleven registration districts, have been enabled to continue their Weekly Return on the Health and Meteorology of Manchester and Salford. The Committee regard this portion of their work with great satisfaction, and tender their warm thanks to those gentlemen for their hearty co-operation. It is satisfactory to find that the example set by the Manchester and Salford Sanitary Association, and the Medical Officer of Health for St. Marylebone is likely to be generally followed in other large towns. A weekly return of new cases of disease is published by Dr. Hill, of Birmingham, and Dr. Philipson is doing the same service for Newcastle and Gateshead.

The deaths in the eleven registration districts which supply returns to the Sanitary Association amounted in the past year to 13,763; in the previous year the number was 13,989, being 226 more than in 1867. Small-Pox only contributed 7 to this number of deaths. In 1864 there were 127; in 1865, 121; and, in 1866, 36 deaths from this disease. These facts indicate a steady decrease in the mortality from this complaint, and are an encouragement to continued perseverance in carrying out the regulations respecting vaccination. The deaths from Whooping-Cough are a little less than they were in the preceding year. In 1862 the mortality from this disease was 617; it fell to 256 in 1864, and rose to 458 in 1865; in 1866 and 1867 the number of deaths was 489 and 478. Continued Fever is another disease that has been considerably less fatal than in the previous year. In the last Annual Report the deaths from this cause are set down as being 1061; in 1867 it proved fatal in 641 instances,—a decrease of 420. The deaths from Measles and Scarlatina have been more numerous than they were in the preceding year; in 1866 they were 218 and 360 respectively;



in 1867, 338 and 554. Diarrhœa and Diseases of the Lungs—ailments most influenced by atmospheric conditions—have caused more deaths in the year under consideration than in the preceding one ; thus, in 1866, the deaths from these two classes of disease were 1,044 and 3,775, in 1867 they rose to 1,245 and 4,024.

The number of cases of disease treated at the Public Institutions of Manchester and Salford, which supply returns to the Association, is notably greater in the year under notice, while the deaths occurring in the above charities only exceed by four those of the previous year. The total number of cases in 1866 and 1867 was 74,960 and 79,337, showing an increase of 4,377 for the latter period. The deaths among these amounted to 3,182 and 3,186, being at the rate of 1 death to every 23·5 cases in 1866, of 1 to every 24·89 cases in 1867. This corroborates a statement made in a previous report that sickness may be more than usually common without raising the number of deaths above the average.

The Committee find the greatest improvement in the disease returns under Small-Pox. In 1863 it was epidemic in Manchester, 1,126 cases then occurred in the Public Institutions named in the Weekly Return. It has since become less and less common until the number of cases admitted in 1867 into these same charities amounted only to 56, and not a single death resulted. Whooping-Cough, Measles, and Scarlatina, have been more prevalent in the public practice of 1867 than in that of the preceding year. There is reason to think that last year these were more rife among the poor, and so caused the heavier returns from the Charitable Institutions, for, taking the number of deaths from these diseases that occurred in the eleven registration districts as our guide, we conclude that these disorders have



not been as general as in 1866. Since the conditions which favour the development and spread of these epidemic diseases are always concentrated among the poorer inhabitants of our towns, the increase of these disorders among that portion of the community creates uneasiness in our minds with regard to the future course of these diseases, and calls for renewed efforts to improve the sanitary state of the worst parts of the town, and to aid in the separation from the healthy of those seized with these infectious diseases. The proportion which subsisted between the numbers of those affected by Whooping-Cough, Measles, and Scarlatina in 1866 was pretty nearly maintained in 1867. Whooping-Cough was the most prevalent; 847 cases were returned, being an increase of 219 for the year, 40 proved fatal (1 in 21 cases). Next in frequency comes Measles, with 650 cases and 27 deaths (1 in 24), the increase here amounted to 282; and, lastly, Scarlatina, with 603 cases and 48 deaths (1 in 12), the increase being 180. It is interesting to note that, during the last seven years, these three diseases have risen and fallen in frequency to a great extent together. Five cases of Diphtheria occurred during the past year, one of which proved fatal; there is under this column a diminution by one half upon the return of 1866.

It is satisfactory to find that Continued Fever has greatly decreased, 3397 cases are reported, with 229 deaths, being in the comparatively low proportion of 1 death to every 15 cases. In the previous year, the number of cases was 4752, and of the deaths 426, or 1 to 11 cases. Continued Fever has been year by year increasing in frequency since 1863; in the subjoined table the rate of its increase and mortality is plainly shown:—

Year.	No. of Cases.	No. of Deaths.	Proportion.
1863	2320	81	1 in 28
1864	2354	142	1 in 16·5
1865	3807	336	1 in 11
1866	4752	426	1 in 11
1867	3397	229	1 in 15

It reached its height in 1866, though the proportion of deaths to cases remained the same as in the previous year. It is to be hoped, that the diminution in the number of cases and of deaths in the year 1867, indicates a tendency to continued decrease in this disease. The proportion of deaths, from Fever, to the population of Manchester, is still higher than the average in large towns. The great improvement upon last year should not lead us to relax in our efforts to improve the condition of the poor, for much reliance cannot be placed upon inferences deduced from the number of cases of Fever occurring in one year. It is necessary in this instance, as is well known, to deal with the average of several years, in order to draw reliable conclusions. As Continued Fever is the zymotic disease least liable to fluctuation from atmospheric and other influences, irrespective of the sanitary condition and prosperity or poverty of the population, its frequency, or otherwise, best serves to indicate an improvement or deterioration in the condition of a community.

Diarrhoea has not been so rife in the public practice of Manchester and Salford in 1867 as in 1866, but the deaths among the cases that came under treatment were much higher last year than in the previous one. Thus, while it has been

much less common, it has caused the greater mortality. In 1866, the number of cases was 6421, of deaths 94, or 1 in every 68 cases. In 1867, the number of cases fell to 3492, and the deaths rose to 133, or 1 to every 24 cases,—a most heavy mortality. When we consider that Diarrhoea, if properly attended to, proves fatal in about 1 case to every 200, the return under this head, for last year, indicates an immense amount of misery and neglect.

In conclusion, the Committee refer to the accompanying list of lectures delivered during the year. By these means, appeals have been made to those who continually live in disregard of the laws of health to do what was in their power to remove all causes of disease. The interest taken in these lectures, as shown by the large audiences which they drew, is an encouragement to further efforts of this kind.

The operations of the Society have thus covered a wide field; the Government has been memorialized to improve the registration of deaths, and to aid in appointing medical officers of health generally throughout the country; the local authorities have been communicated with on matters relating to the health of our city; and the working classes have been taught to protect themselves against the diseases so rife among them. It is only necessary for the work that is annually being performed by the Manchester and Salford Sanitary Association to become generally known, in order to enlist on its behalf the assistance of the wealthy and benevolent.

The Committee, in recording the resignation of Dr. Morgan, take the opportunity to express their appreciation of the very valuable services rendered by him to the Association during the five years that he held the office of Honorary Secretary.



THE FOLLOWING LECTURES HAVE BEEN DELIVERED  
DURING THE YEAR :—

LECTURER.	SUBJECT.	PLACE.
OPENING ADDRESS :		
T. TURNER, Esq., F.R.C.S. ....	<i>Death from causes of our own Creation .....</i>	Hulme Town Hall.
Ditto .....	<i>The Wear and Tear of Life</i>	St. Jude's School, Canal- street, Ancoats.
Ditto .....	<i>Labour and Rest, in con- nection with Health and Life .....</i>	St. Bartholomew's School, Regent-street.
Ditto .....	<i>The Influence of Water, in connection with Life and Health.....</i>	St. Peter's School, Bengal- street, Oldham-road.
Ditto .....	<i>The Atmosphere of Man- chester in connection with Health.....</i>	St. Jude's School, Canal- street, Ancoats.
Ditto .....	<i>The Influence of Water in connection with Life and Health.....</i>	Christ Church School, Bradford.
Dr. LEDWARD .....	<i>Cellar Dwellings .....</i>	St. Joseph's School, Goul- den-st., Rochdale-road.
Ditto .....	<i>Unhealthy Trades.....</i>	Egerton Schools (St. Bar- tholomew's), Derby-st., Regent-road.
Ditto .....	<i>Catching Cold.....</i>	St. Joseph's School, Goul- den-st., Rochdale-road.
Dr. J. SHEPHERD FLETCHER, M.R.C.S. ....	<i>Chest Diseases: their Causes and Prevention .....</i>	St. Paul's School, Mul- berry-st., Stretford-road.
Ditto .....	<i>Do. Do.</i>	Rusholme-road School.
JOHN ED. MORGAN, M.D., M.A., Oxon	<i>Food and Digestion .....</i>	Christ Church School, Hope-street, Salford.

LECTURER.	SUBJECT.	PLACE.
ARTHUR RANSOME, Esq., M.B., M.A., Cantab., M.R.C.S.	<i>The effects of Cold</i> .....	Temperance Hall, Grosve- nor-street, Chorlton-on- Medlock.
Rev. St. VINCENT BEECHEY, M.A...	<i>The Moon as a Sanitary Commissioner</i> .....	St. James's School, Major- street, David-street.
Professor ROSCOE, B.A., F.R.S., Pro- fessor of Chemis- try, Owens College	<i>Water in its Sanitary Rela- tions. Illustrated by ex- periments and lantern</i> ...	Salford Town Hall.
THOS. MACKERETH, Esq., F.R.A.S., M.B., M.S.....	<i>Discipline, Method, and Order, the foundation of Man's Prosperity</i> .....	Co-operative Hall, Down- ing-street, Ardwick.
Dr. GEO. GREGORY, L.R.C.P. ....	<i>How to live Long and Happily</i> .....	Wesleyan School, Chan- cery-lane.
Ditto.....	<i>Do. Do.</i>	St. Michael's School, Mil- ler-st.
W. H. BARLOW, M.D. ....	<i>Hints to Mothers upon the Management of Children</i>	Ashley-lane School, Colly- hurst-road.
Dr. WHITGREAVE...	<i>Public Health, as influenced by each and every indi- vidual</i> .....	St. Peter's School, Collier- street, Greengate.
Ditto.....	<i>Do. Do.</i>	All Souls' School, Every- street, Ancoats.
GEORGE HOPWOOD, Esq. ....	<i>The Use of Common Air, with experiments</i> .....	St. Thomas's School, North- street, Ardwick.
Rev. JAMES BARDS- LEY, M.A.....	<i>The Domestic Constitution..</i>	St. Mary's School, Upper Moss-lane.
EDWD. MEACHAM, Esq., M.R.C.S...	<i>Reform in the Household</i> ...	Working Men's Bible Class, Bank-street, Hulme.
Ditto.....	<i>True Reform</i> .....	St. Barnabas's School, Elizabeth-st., Oldham- road.
Rev. T. G. LEE ...	<i>The Influence of the Good Wife at Home</i> .....	Temperance Hall, Grosve- nor-street, Chorlton-on- Medlock.

OLIVER HEYWOOD, ESQ., Treasurer, in Account with the Manchester and Salford Sanitary Association.

JANUARY 1ST, 1867, TO DECEMBER 31ST, 1867.

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Examined and found correct:

WM. BOOTH.

WM. ROYSTON.

Manchester,

*December 31st, 1867.*



## Members from Donations in former Years.

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# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC New Cases of Disease coming under Treatment

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	" " 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts	Workhouse	ROYAL INFIRMARY.					CHILDREN		City Gaol
									In-patients	Out-patients	District I.	District II.	District III.	St. Mary's Hospital	Clinical Hospital	
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	15
Small-pox .....	..	1	1	1	..	2	5	4	12	..	..	..	5	..	..	..
Chicken-pox .....	..	..	1	..	..	..	1	..	..	..	..	..	..	..	2	2
Measles .....	5	5	7	11	9	13	50	3	..	2	1	2	4	12	18	..
Scarlatina .....	4	10	4	6	12	6	42	13	8	2	1	7	19	1	3	..
Diphtheria .....	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Whooping-cough .....	6	3	..	..	..	7	16	2	..	17	..	..	2	48	57	..
Croup .....	..	2	..	..	..	..	2	4	..	..	..	..	..	2	..	..
Diarrhœa.....	26	36	14	23	16	27	142	106	2	129	2	2	16	160	179	118
Dysentery .....	5	3	2	..	2	13	25	4	..	19	..	..	..	4	1	..
Continued Fever .....	45	24	79	26	45	115	334	398	48	7	12	57	52	133	3	2
Erysipelas .....	6	3	3	4	1	5	22	62	5	14	3	5	5	1	..	..
Rheumatism .....	49	37	13	14	11	15	139	307	45	413	27	42	40	16	117	62
Neuralgic Affections .....	1	..	5	..	..	2	8	21	22	130	2	5	2	5	77	47
Constitutional Syphilis .....	6	..	7	3	..	8	24	233	1	394	10	4	8	1	29	76
Phthisis .....	15	25	2	23	7	13	85	224	18	578	44	55	63	18	42	23
Insanity .....	10	10	11	..	..	10	41	125	..	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	126	155	67	98	87	239	772	574	28	1044	74	121	119	346	453	89
Pleurisy and Pneumonia ....	14	11	8	11	7	1	52	180	19	130	14	21	15	6	20	4
Skin Diseases .....	33	6	3	3	..	14	59	417	1	315	1	1	4	90	404	89
Dyspepsia .....	8	9	6	14	6	8	51	252	9	475	7	6	3	73	334	70
Atrophy and Anæmia.....	..	..	2	..	..	9	11	2	1	72	5	..	1	1	128	..
Accidents and diseases not classified .....	511	187	380	210	102	278	1668	1946	1287	6423	104	147	228	1290	313	28
TOTAL .....	871	527	615	447	305	785	3550	4877	1506	10164	307	475	586	2207	2180	610

Medical Officers to whom the Association

- (1) Mr. R. M. Mann,
- (2) " J. Broadbent,
- (3) " Edward Meacham,
- (4) Dr. Braddon,

- (5) Mr. Octavius Dean,
- (6) Dr. Ledward,
- (7) Mr. J. Westmoreland.
- (8) Dr. George Reed,

- (9) Mr. W. E. Richardson,
- (10) " T. Henry Pinder,
- (11) " S. J. Trueman.
- (12) " H. Runcorn,
- (13)

SANITARY ASSOCIATION.

INSTITUTIONS OF MANCHESTER AND ADJOINING DISTRICTS.  
from 28th December, 1866, to 27th July, 1867.

SALFORD.					HULME.			CHORL- TON.	ARD- WICK.	PENDLETON AND PENDLEBURY.					DEATHS.
..... 1,329 .....					.... 477 ....			.. 646 ..	..508..	..... 2,650 .....			....Area in Statute Acres.		
..... 70,967 .. ...					.. 68,209.....			..44,850..	21,739	..... 24,448 .....			....Population in 1861.		
POOR LAW DISTRICT.		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.			Poor Law District	Dispensary	Poor Law District	Ardwick & Ancoats Dispensary	Chorlton Union Workhouse	Total.	DISEASES.	
Greengate	Regent Road	Workhouse	Dispensary	New Bailey	St. George's	Medlock	St. Philip's								
16	17	18	19	20	21	22	23	24	25	26	27	28			
..	..	..	1	..	1	..	3	1	2	1	4	1	40	Small-pox .....	
1	..	21	..	..	1	..	1	..	..	..	..	6	35	Chicken-pox .....	..
1	12	1	92	..	22	2	41	29	53	4	1	59	409	Measles .....	15
2	1	3	65	..	3	9	..	1	3	9	17	4	213	Scarlatina .....	9
..	..	..	..	..	..	1	..	..	..	..	..	..	2	Diphtheria .....	..
2	1	..	47	..	2	2	1	3	27	5	..	..	240	Whooping-cough .....	11
..	..	2	3	..	1	..	1	..	3	1	8	..	21	Croup .....	7
41	18	21	107	107	23	32	25	18	38	2	..	2	1470	Diarrhoea ..	37
9	8	1	5	..	..	..	2	8	4	..	3	2	95	Dysentery .....	2
34	60	67	229	..	16	31	64	41	65	8	83	94	1838	Continued Fever .....	156
3	3	2	23	1	5	..	2	2	4	..	11	7	180	Erysipelas .....	4
35	36	14	301	8	31	38	22	57	49	10	98	202	2109	Rheumatism .....	..
3	10	..	72	..	..	2	7	..	6	..	35	13	467	Neuralgic Affections .....	3
7	7	..	129	22	5	..	1	10	13	..	53	92	1119	Constitutional Syphilis .....	13
20	44	21	281	1	35	23	16	36	45	15	267	174	2128	Phthisis .....	338
18	8	47	1	1	3	2	1	10	..	3	..	..	260	Insanity .....	1
155	165	87	1156	66	180	183	150	154	242	104	483	554	7299	Bronchitis, Influenza, & Catarrh .....	335
2	10	5	55	6	3	1	8	7	9	4	27	21	619	Pleurisy and Pneumonia .....	53
14	10	94	578	8	11	12	10	24	30	..	54	332	2558	Skin Diseases .....	..
22	42	3	400	8	13	46	20	99	35	9	162	105	2244	Dyspepsia .....	2
1	..	.	60	..	1	..	5	22	8	..	48	6	372	Atrophy and Anæmia .....	33
208	276	277	3016	57	220	127	108	210	811	178	1455	1502	21879	{ Accidents and diseases not classified .....	925
578	711	666	6621	285	576	511	488	732	1447	353	2868	3299	45597	..... TOTAL .....	1944

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(16) Mr. J. Teale,

(17) Dr. T. M. Johnson,

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- (19) Mr. J. O. Bradbury,

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(21) Mr. S. Woodcock,

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(27) „ Charles Ogden,

(28) „ George Clements.



THE UNIVERSITY OF CHICAGO







# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC

*New Cases of Disease coming under Treatment*

MANCHESTER.																
Area in Statute Acres .....	Manchester Township 1,645 .....															
Population in 1861 .....	,, ,, 185,050 .....															
DISEASES.	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.								
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts	Workhouse	ROYAL INFIRMARY.					CHILDREN		City Gaol
									In-patients	Out-patients	District I.	District II.	District III.	St. Mary's Hospital	Clinical Hospital	
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	15
Small-pox .....	..	1	..	..	..	..	1	..	1	..	..	2	..	..	..	..
Measles .....	9	12	..	8	1	9	39	..	..	12	..	3	10	8	12	..
Scarlet Fever .....	2	7	7	2	10	12	40	3	7	5	1	42	17	5	8	..
Diphtheria .....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..
Whooping-cough .....	9	8	3	1	9	11	41	3	..	59	..	..	8	113	124	..
Croup .....	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Diarrhœa.....	39	22	13	16	13	30	133	198	1	159	7	8	15	336	255	81
Dysentery .....	4	2	3	..	..	7	16	..	1	12	..	..	2	8	..	1
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	1	..	..	1	1	4	7	25	1	19	3	1	1	1	1	1
Continued Fever .....	43	5	31	10	12	19	120	..	..	3	..	..	3	12	11	1
Typhus .....	3	4	6	1	2	6	22	119	36	..	11	29	28	..	6	1
Enteric or Typhoid .....	..	3	..	2	2	2	9	59	28	1	2	13	10	..	7	..
Febricula .....	15	2	18	8	11	34	88	28	8	22	6	9	7	116	22	25
Ague .....	..	..	..	..	..	..	..	1	..	3	..	..	..	..	..	..
Rheumatic Fever .....	2	2	3	9	7	3	26	56	35	420	10	17	14	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis and Catarrh.....	77	67	38	69	60	112	423	348	19	918	34	65	97	350	154	87
Influenza.....	..	..	..	1	..	..	1	10	..	54	1	..	..	4	2	9
Pleurisy and Pneumonia ....	16	4	3	1	4	3	31	85	8	49	9	6	6	5	30	7
Phthisis .....	5	4	7	18	12	2	48	178	20	430	24	25	42	20	26	22
Constitutional Syphilis .....	4	3	4	4	1	7	23	263	6	285	3	6	10	4	34	48
All other Diseases .....	369	112	246	130	80	224	1161	1824	482	2802	54	90	189	1168	846	100
Accidents .....	27	3	19	28	7	27	111	174	445	2528	13	24	33	..	7	..
TOTAL .....	626	261	401	309	232	512	2341	3374	1098	7781	179	340	492	2150	1546	383

*Medical Officers to whom the Association*

- (1) Mr. R. M. Mann,
- (2) „ J. Broadbent,
- (3) „ Edward Meacham,
- (4) Dr. Braddon,

- (5) Mr. Octavius Dean,
- (6) Dr. Ledward,
- (7) Mr. J. Westmoreland.
- (8) Dr. George Reed,

- (9) } Mr. W. E. Richardson,
- (10) } „ T. Henry Pinder,
- (11) } „ S. J. Trueman.
- (12) }
- (13) „ H. Runcorn,



SANITARY ASSOCIATION.

INSTITUTIONS OF MANCHESTER AND ADJOINING DISTRICTS.  
from July 27, to December 28, 1867.

SALFORD.					HULME.			CHORLTON.		ARDWICK.	PENDLETON AND PENDLEBURY.			DISEASES.	DEATHS.	
..... 1,329 .....					..... 477 .....			.. 646 ..		..508..	..... 2,650 .....					.....Area in Statute Acres.
..... 70,967 ..					.. 68,209.....			..44,850..		21,739	..... 24,448 .....					.....Population in 1861.
POOR LAW DISTRICT.		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.					Poor Law District	Dispensary	Poor Law District	Ardwick & Ancoats Dispensary	Chorlton Union Workhouse	Total.	
Greengate	Regent Road	Workhouse	Dispensary	New Bailey	St. George's	Medlock	St. Philip's									
16	17	18	19	20	21	22	23	24	25	26	27	28				
..	2	1	5	..	..	1	1	..	2	..	..	..	16	Small-pox .....	..	
3	1	25	45	..	18	11	2	22	23	..	10	1	245	Measles .....	12	
4	6	..	61	..	48	33	54	25	12	1	14	4	390	Scarlatina .....	39	
..	..	..	1	..	..	..	..	..	..	..	..	..	3	Diphtheria .....	1	
..	1	5	57	..	15	8	36	23	43	3	15	53	607	Whooping-cough .....	29	
..	1	..	2	..	2	..	1	..	2	..	..	2	11	Croup .....	3	
46	45	22	147	85	34	37	56	37	81	12	52	175	2022	Diarrhoea ..	96	
5	7	..	17	..	1	..	4	5	3	..	4	1	87	Dysentery. ....	1	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera .....	..	
3	2	4	18	1	5	..	2	3	5	1	1	5	110	Erysipelas .....	1	
20	1	38	87	..	1	36	7	1	4	4	8	..	357	Continued Fever .....	5	
6	11	21	31	..	2	..	3	..	..	..	3	47	376	Typhus .....	44	
3	8	3	53	..	3	..	17	12	1	2	2	3	236	Enteric or Typhoid .....	24	
..	15	3	76	..	6	4	15	29	75	5	20	11	590	Febricula .....	..	
..	..	..	..	..	..	..	..	..	..	..	..	..	4	Ague .....	..	
4	..	13	41	3	6	4	5	9	6	7	56	2	734	Rheumatic Fever.....	..	
..	..	..	..	..	..	..	..	7	..	..	..	..	7	Puerperal Fever .....	1	
112	113	23	736	70	104	122	126	101	177	46	162	447	4828	Bronchitis and Cattarrh.....	172	
3	..	..	62	5	..	..	..	..	..	..	2	..	153	Influenza .....	..	
1	9	3	62	7	5	..	7	4	14	4	11	17	380	Pleurisy and Pneumonia....	45	
8	20	4	206	4	30	10	14	37	36	4	53	81	1342	Phthisis .....	193	
11	9	..	102	27	4	..	5	15	3	2	4	82	946	Constitutional Syphilis.....	11	
221	293	358	1848	63	182	97	153	309	437	87	282	1744	14790	All other Diseases .....	506	
23	25	..	1186	3	14	5	18	20	301	7	569	..	5506	Accidents .....	59	
473	569	523	4843	268	480	368	520	659	1225	185	1268	2675	33740	..... TOTAL.....	1242	

is indebted for the annexed Returns.

- (14) Mr. J. Finlayson,

(15) Dr. J. Ogden Fletcher,

(16) Mr. J. Teale,

(17) Dr. T. M. Johnson,

(18)
- (19) Mr. J. O. Bradbury,

(20) Dr. Braddon,

(21) Mr. S. Woodcock,

(22) Dr. Alex. Wilson,

(23) Mr. H. M. Williamson,
- (24) Mr. Joseph Foster,

(25) „ J. T. Caldwell,

(26) „ J. V. L. Westmacott,

(27) „ Charles Ogden,

(28) „ George Clements.







# MANCHESTER AND SALFORD

## RETURN FROM PAUPER, CHARITABLE, AND PUBLIC

*New Cases of Disease coming under*

DISEASES.	MANCHESTER.														
	MANCHESTER.														
	Area in Statute Acres ..... Manchester Township 1,645 ..... Population in 1861 ..... " " 185,050 .....														
	POOR LAW DISTRICTS.							PUBLIC INSTITUTIONS.							
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts	Workhouse	ROYAL INFIRMARY.			CHILDREN.			
	1	2	3	4	5	6		7	In-patients	Out-patients	District I.	District II.	District III.	St. Mary's Hospital	City Gaol
Small-pox .....	..	2	1	1	..	2	6	4	13	..	..	2	5	..	..
Measles .....	14	17	7	19	10	22	89	3	..	14	1	5	14	20	30
Scarlet Fever .....	6	17	11	8	22	18	82	16	15	7	2	49	36	6	11
Diphtheria .....	1	..	..	..	..	..	1	..	..	..	1	..	..	..	1
Whooping-cough .....	15	11	3	1	9	18	57	5	..	76	..	..	10	161	181
Croup .....	1	2	..	..	..	..	3	4	..	..	..	..	..	2	..
Diarrhœa.....	65	58	27	39	29	57	275	304	3	288	9	10	31	496	434
Dysentery .....	9	5	5	..	2	20	41	4	1	31	..	..	2	12	1
Malignant Cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .....	7	3	3	5	2	9	29	87	6	33	6	6	6	2	1
Continued Fever .....	106	38	134	47	72	176	573	604	120	33	31	108	100	261	49
Ague .....	..	..	..	..	..	..	..	1	..	3	..	..	..	..	..
Rheumatic Fever .....	51	39	16	23	18	18	165	363	80	833	37	59	54	16	117
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis, Influenza, and Catarrh.....	203	222	105	168	147	351	1196	932	47	2016	109	186	216	700	609
Pleurisy and Pneumonia ....	30	15	11	12	11	4	83	265	27	179	23	27	21	11	50
Phthisis .....	20	29	9	41	19	15	133	402	38	1008	68	80	105	38	68
Constitutional Syphilis .....	10	3	11	7	1	15	47	496	7	679	13	10	18	5	63
All other Diseases and Accidents .....	959	327	673	385	195	572	3111	4761	2247	12745	186	273	460	2627	2111
TOTAL .....	1497	788	1016	756	537	1297	5891	8251	2604	17945	486	815	1078	4357	3726

*Medical Officers to whom the Association*

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- (12) }
- (13) „ H. Runcorn,



# SANITARY ASSOCIATION.

## INSTITUTIONS OF MANCHESTER AND ADJOINING DISTRICTS.

*Treatment during the year 1867.*

SALFORD.					HULME.			CHORLTON.	ARDWICK.	PENDLETON AND PENDLEBURY.			DEATHS.		
..... 1,329 .....					..... 477 .....			.. 646 ..	..508..	..... 2,650 .....				.....Area in Statute Acres.	
..... 70,967 .. ..					.. 68,209.....			..44,850..	21,739	..... 24,448 .....				.....Population in 1861.	
POOR LAW DISTRICT.		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.			Poor Law District	Dispensary	Poor Law District	Ardwick & Ancoats Dispensary	Chorlton Union Workhouse	Total.	DISEASES.	
Greengate	Regent Road	Workhouse	Dispensary	New Bailey	St. George's	Medlock	St. Philip's								
16	17	18	19	20	21	22	23	24	25	26	27	28			
..	2	1	6	..	1	1	4	1	4	1	4	1	56	Small-pox .....	..
4	13	26	137	..	40	13	43	51	76	4	11	60	654	Measles .....	27
6	7	3	126	..	51	42	54	26	15	10	31	8	603	Scarlatina .....	48
..	..	..	1	..	..	1	..	..	..	..	..	..	5	Diphtheria .....	1
2	2	5	104	..	17	10	37	26	70	8	23	53	847	Whooping-cough .....	40
..	1	2	5	..	3	..	2	..	5	1	..	4	32	Croup .....	10
87	63	43	254	192	57	69	81	55	119	14	111	298	3492	Diarrhoea ..	133
14	15	1	22	..	1	..	6	13	7	..	7	3	182	Dysentery .....	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Malignant Cholera .....	..
6	5	6	41	2	10	..	4	5	9	1	12	12	290	Erysipelas .....	5
63	95	132	476	..	28	71	106	83	145	19	116	155	3397	Continued Fever .....	229
..	..	..	..	..	..	..	..	..	..	..	..	..	4	Ague .....	..
39	36	27	342	11	37	42	27	66	55	17	154	204	2843	Rheumatic Fever.....	..
..	..	..	..	..	..	..	..	7	..	..	..	..	7	Puerperal Fever .....	1
270	278	110	1954	141	284	305	270	255	419	150	647	1001	12280	Bronchitis, Influenza, and Cattarrh .....	507
3	19	8	117	13	8	1	15	11	23	8	38	38	999	Pleurisy and Pneumonia.....	98
28	64	25	487	5	65	33	30	73	81	19	320	255	3470	Phthisis .....	531
18	16	..	231	49	9	..	6	25	16	2	57	174	2065	Constitutional Syphilis.....	24
511	664	800	7161	140	445	291	323	694	1628	284	2605	3708	48111	All other Diseases and Accidents .....	1529
1051	1280	1189	11464	553	1056	879	1008	1391	2672	538	4136	5974	79337	..... TOTAL .....	3186

*is indebted for the annexed Returns.*

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WATSON, Mrs. S. J. 1895

1895





# RETURN OF BIRTHS AND DEATHS

COMPILED BY

TOWNSHIP OF	POPULATION 1861.	<i>Deaths for the Years ending December</i>				
		1867	1866	1865	1864	1863
Manchester .....	185,410	6632	6932	7156	6076	6514
Salford .....	71,002	2491	2548	2458	2203	2119
Pendleton and Pendlebury. }	24,448	664	649	676	566	584
Chorlton .....	44,795	1119	1085	1118	960	1100
Hulme and Moss Side	71,128	2113	2108	1943	1831	2068
Ardwick .....	21,746	744	667	656	637	673
TOTAL.....	418,529	13763	13989	14007	12273	13058

It has been thought advisable that the mortality return be remodelled; the deaths from the several causes, hitherto given separately, are now included in the general grouping. For more detailed information, reference can be made to the Weekly Returns. Moreover, the rate of death to population is omitted, as it is impossible to ascertain with anything like accuracy the variation of population from year to year. To assume that the rate of increase will be the same as it was during the ten years preceding the last census will certainly, in this locality, lead to error. An illustration in proof may be supplied by the fact that the increase of population in the township of Manchester at the census of 1851, from the previous

FOR THE YEARS 1863 TO 1867.

MR. WILLIAM ROYSTON.

Births for the Years ending December					POPULATION	TOWNSHIP
1867	1866	1865	1864	1863	1861	OF
6907	6742	6835	6838	6994	185,410	..... Manchester
3222	3109	3004	3064	2961	71,002	..... Salford
1080	989	993	1010	956	24,448	..... { Pendleton and Pendlebury.
1634	1576	1607	1466	1510	44,795	..... Chorlton
3061	3032	2896	2968	3062	71,128	Hulme and Moss Side
1157	1114	1106	1152	1016	21,746	..... Ardwick
17061	16562	16441	16498	16499	418,529	..... TOTAL

one of 1841, was about 15 per cent., but at the census of 1861 the population had decreased nearly 1 per cent.; and again, in Hulme, at the census of 1841, the increase from 1831 was about 200 per cent., and at that of 1851 it was about 100 per cent., but at that of 1861 the increase was only about 30 per cent. The plan of estimating a certain number of persons for each house built is also fallacious, as the density of population varies in towns considerably with the circumstances of the times. The method adopted in previous tables of adding the excess of births over deaths cannot yield accurate results, because it does not include the effects of emigration and immigration.

1990 FEB 14 10:00 AM

1990 FEB 14 10:00 AM

